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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------|----------------------|-------------------------|------------------|
| 10/734,642 | 12/15/2003 | Erwin Van Zwet | 081468-0307212 | 9080 |
| 909 | 7590 09/14/2006 | | EXAMINER | |
| PILLSBURY WINTHROP SHAW PITTMAN, LLP P.O. BOX 10500 MCLEAN, VA 22102 | | | NGUYEN, HUNG | |
| | | | ART UNIT | PAPER NUMBER |
| , | , | | 2851 | |
| | | | DATE MAILED: 09/14/2006 | 5 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| • | | | | | | |
|---|---|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | |
| | 10/734,642 | ZWET ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Hung Henry V. Nguyen | 2851 | | | | |
| - The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the c | orrespondence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| Status | | | | | | |
| 1) Responsive to communication(s) filed on 22 A | ugust 2006. | | | | | |
| 2a) This action is FINAL . 2b) ⊠ This | This action is FINAL . 2b)⊠ This action is non-final. | | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | |
| closed in accordance with the practice under E | Ex parte Quayle, 1935 C.D. 11, 45 | 53 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4)⊠ Claim(s) <u>1-15,17,18,21,22 and 24</u> is/are pending in the application. | | | | | | |
| 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5)⊠ Claim(s) <u>1-15, 17-18, 22, 24</u> is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>21</u> is/are rejected. | ☑ Claim(s) <u>21</u> is/are rejected. | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and/or | r election requirement. | | | | | |
| Application Papers | | | | | | |
| 9) The specification is objected to by the Examine | r. /* | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | |
| 11) The oath or declaration is objected to by the Ex | caminer. Note the attached Office | Action or form PTO-152. | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list | s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)). | on No ed in this National Stage | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4) | (PTO-413) ate | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 5) Notice of Informal P 6) Other: | асен Аррисацоп | | | | |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 22, 2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hara et al (U.S.Pat. 6,084,938).

With respect to claim 21, Hara et al discloses a projection exposure apparatus and a corresponding device manufacturing method comprising substantially all of the limitations of the instant claim such as: providing a mask (106); handling a mask (1) with an article handler (see figure 1) provided in an article support (2), the article handler having an electrostatic clamp for attracting the mask (1) (see col.5, lines 3-5); detecting a presence of the mask on the article support by detecting a capacity formed by the electrostatic clamp and the mask via a sensor (11);

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providing a beam of radiation (101) using an illumination system (102-103, 105) and projecting after detecting the presence of the mask, the patterned beam of radiation onto a target portion of a substrate (106). Hara does not expressly disclose the article handler for handling the substrate (106). Even if we consider the mask as being different from a substrate, the claimed invention would still not have involved an inventive step since it is the Examiner's position that in view of Hara's teachings, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the article handler as taught by Hara for the purpose of handling the substrate in a lithography apparatus/or method and improving the throughput of the device manufacturing method.

Reasons for Allowance

- 4. Claims 1-15, 17-18, 22 and 24 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: Claims 1-15, 17-18 and 22, 24 have been found to be allowable since while the prior art teaches a lithographic apparatus having an article support for supporting a flat article, the article having an electrode and dielectric layer in order to form an electrostatic clamp for electrostatically clamping the article but the prior art does not specifically disclose the article handler being provided/or integrated in/or with the article support to move the article during placement of the article on, or removal of the article from the article support, as recited in the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Response to Amendment/Argument

6. Applicant's amendment filed August 22, 2006 has been entered. Claims 1, 21, 22 have

been amended. Claims 16 and 23 have been cancelled. In view of applicant's arguments and

amendment, claims 1-15, 17-18 and 22, 24 are allowed. Applicant's argument with respect to

claim 21 has been carefully reviewed but has been traversed as set forth above.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung Henry V. Nguyen whose telephone number is 571-272-

2124. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hung Henry V Nguyen Primary Examiner

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hvn 9/9/06